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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/735,465 12/12/2003		Bernhard Stegmuller	MAIKP108US	MAIKP108US 4303		
29393	7590 03/24/2005		EXAM	EXAMINER		
ESCHWEILER & ASSOCIATES, LLC NATIONAL CITY BANK BUILDING			LOKE, STEV	LOKE, STEVEN HO YIN		
629 EUCLID AVE., SUITE 1210			ART UNIT	PAPER NUMBER		
CLEVELAND	O, OH 44114		2811			

DATE MAILED: 03/24/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<u> </u>				
	Application	No.	Applicant(s)	
	10/735,465		STEGMULLER, BERNHARD	
Office Action Summary	Examiner		Art Unit	
	Steven Loke		2811	
The MAILING DATE of this communication ap Period for Reply	pears on the co	over sheet with the c	orrespondence a	ddress
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, oly within the statutory will apply and will ex le, cause the applicat	however, may a reply be tim r minimum of thirty (30) days pire SIX (6) MONTHS from ion to become ABANDONEI	nely filed s will be considered time the mailing date of this of O (35 U.S.C. § 133).	
Status				
 1) ⊠ Responsive to communication(s) filed on 27 £ 2a) ☐ This action is FINAL. 2b) ⊠ This 3) ☐ Since this application is in condition for allowed closed in accordance with the practice under the condition of the condi	s action is non- ance except for	- final. formal matters, pro		e merits is
Disposition of Claims				
4) ☐ Claim(s) 1-21 is/are pending in the application 4a) Of the above claim(s) 2-12 and 14-21 is/are 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1 and 13 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	re withdrawn fr			
Application Papers				
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	cepted or b) edrawing(s) be heterorised in	eld in abeyance. Seefthe drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 C	` '
Priority under 35 U.S.C. § 119				
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list	ts have been ro ts have been ro prity documents nu (PCT Rule 1	eceived. eceived in Application s have been receive 7.2(a)).	on No d in this National	Stage
Attachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 12/12/03, 1/21/04.) 5)	Interview Summary (Paper No(s)/Mail Da Notice of Informal Pa	te	O-152)

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1. Applicant's election with traverse of claims 1 and 13 in the reply filed on 12/27/04 is acknowledged. The traversal is on the ground(s) that there are no multiple species exist. This is not found persuasive because there are four different embodiments exist in the application. These four embodiments have different structures from each other.

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The requirement is still deemed proper and is therefore made FINAL.

- 2. Claims 2-12 and 14-21 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected species, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on 12/27/04.
- 3. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: 190 (page 12, line 24), 30, 40, 50 (page 13, lines 29-30). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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4. The disclosure is objected to because of the following informalities: Reference numeral 100' is shown in Figure 2 instead of Figure 1 (page 14, line 13).

Appropriate correction is required.

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claim 1 is rejected under 35 U.S.C. 102(b) as being clearly anticipated by Arahira et al. (in the IDS filed on 12/12/03).

In regards to claim 1, Arahira et al. show all the elements of the claimed invention in fig. 1. It is an optoelectronic component, comprising: a semiconductor substrate (n-InP); an active layer (a lower portion of the MQW (multiple quantum wells)) overlying the semiconductor substrate; a further active layer (an upper portion of the MQW (multiple quantum wells)) overlying the semiconductor substrate; an absorber device (saturable absorber) associated with the further active layer; an amplifier device (gain) associated with the active layer, wherein the absorber device and the amplifier device reside within an optical resonator portion of the component (the area between the DBR and the outer edge of the saturable absorber).

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

8. Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Arahira et al. in view of O'Brien et al.

In regards to claim 13, Arahira et al. further disclose an electrical connector pad (Au/AuZn) for the absorber device overlying a top portion of the component.

Arahira et al. differ from the claimed invention by not showing the electrical connector pad is tapered.

O'Brien et al. disclose a tapered electrical connector pad (a contact for pump section [213]) in an absorber section of an optical amplifier semiconductor device in fig. 35g.

Since both Arahira et al. and O'Brien et al. teach an absorber in an optical semiconductor device, it would have been obvious to have the tapered electrical connector of O'Brien et al. in Arahira et al. because it allows more light into the amplifier of the device.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven Loke whose telephone number is (571) 272-1657. The examiner can normally be reached on 7:50 am to 5:20 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Lee can be reached on (571) 272-1732. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

March 17, 2005

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